

FIG. 2

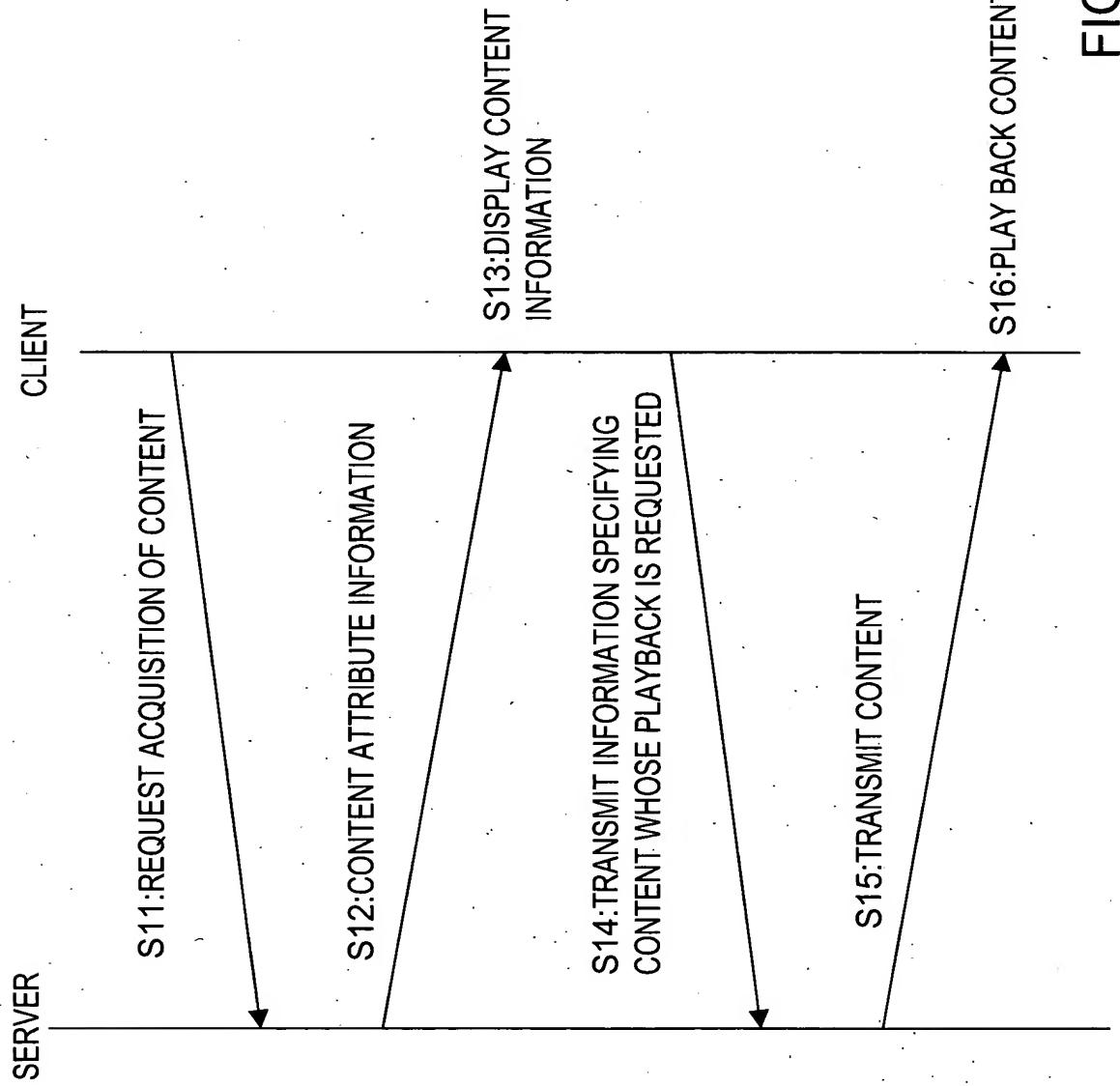


FIG. 3

Class Name	Description
avmusicTrack	Music
avMusicAlbum	Album It has avMusicTrack as a subclass.
avMusicGenre	Each genre of "List of Genres" It has avMusicArtist or avMusicAlbum or avMusicTrack as a subclass.
avMusicArtist	Each artist of "List of Artists" It has avMusicAlbum or avMusicTrack as a subclass.
avMusicPlaylist	Playlist in "List of Playlists" container It has, as a subclass, avMusicTrack, which is included in the playlist.
avMusicSearchavMusicSearch	Server-automatically-generated playlist in "Various Searches" It has, as a subclass, avMusicTrack, which is included in the playlist.
avMusicPlaylistFolder	Playlist container It has avMusicPlaylistFolder or avMusicPlaylist as a subclass. The reason that playlistContainer is not inherited is to avoid confliction with avMusicPlaylist in character-string matching.
avMusicAlbumCabinet	Album cabinet It has avMusicAlbum as a subclass.
avAllavAllMusicTracks	"All Pieces of Music" container avMusicTrack as a subclass
avAllavAllMusicAlbums	"List of Albums" container avMusicAlbum as a subclass
avAllavAllMusicArtists	"List of Artists" container avMusicArtist as a subclass
avAllavAllMusicGenre	"List of Genres" container avMusicGenre as a subclass
avAllavAllMusicPlaylists	"List of Playlists" container avMusicPlaylist or avMusicPlaylistFolder as a subclass
avAllMusicSearch	"Various Searches" container avMusicSearchavMusicSearch as a subclass
avAllMusicAlbumCabinets	"List of Album Cabinets" container avMusicAlbumCabinet as a subclass

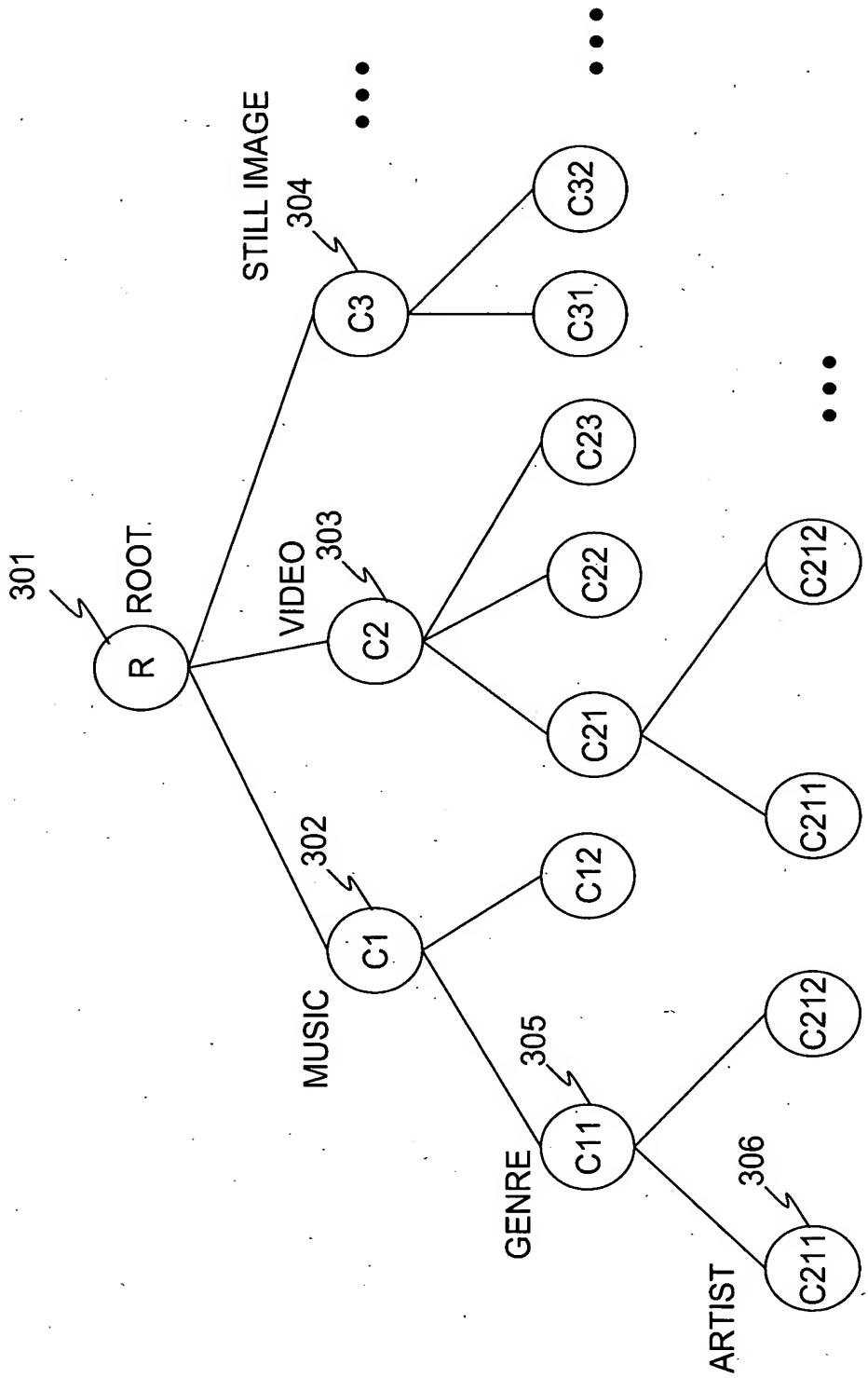


FIG. 5

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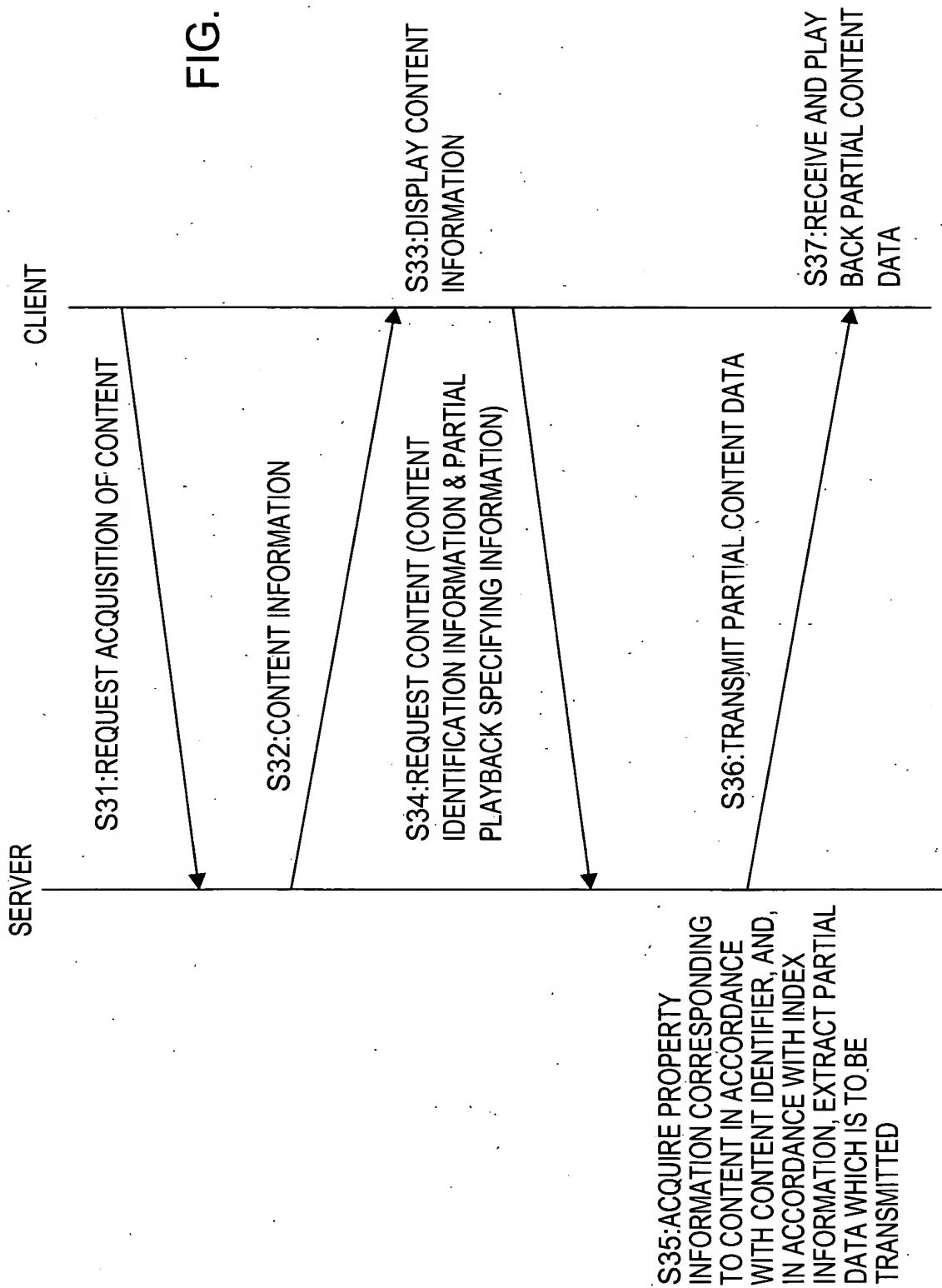
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FIG. 6

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FIG. 7

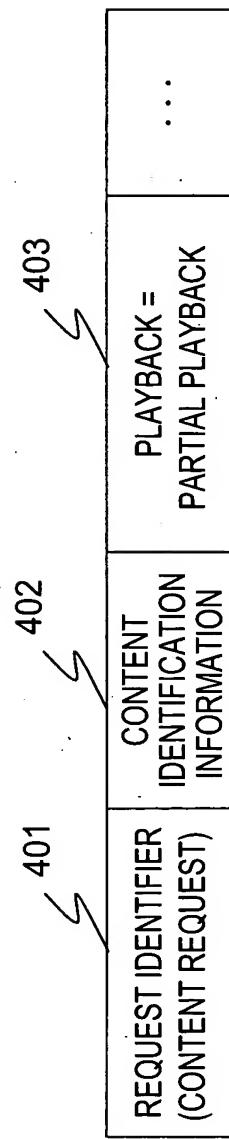


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FIG. 8



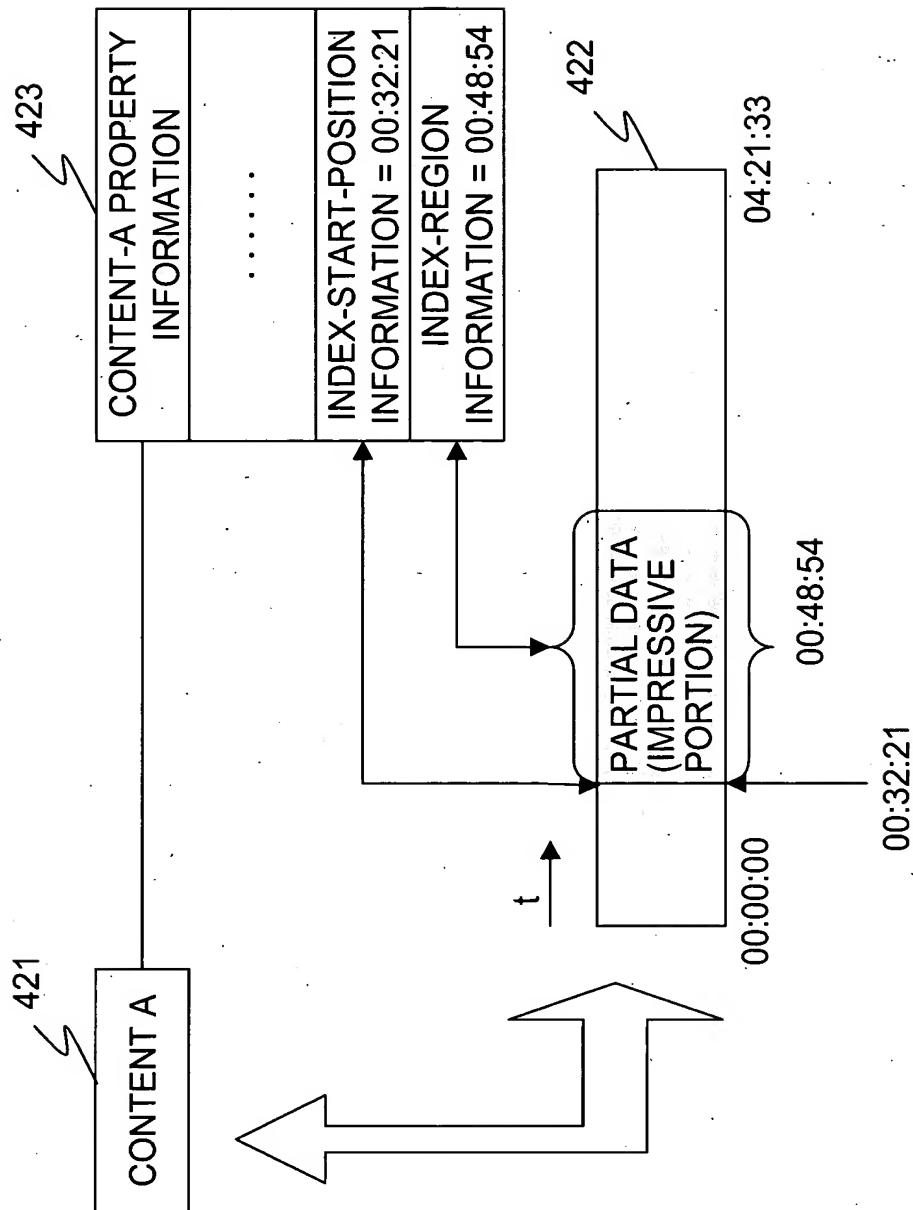
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FIG. 9

Property Name	Type	Multiple	Property Description
av:totalSize	unsigned long	no	Size (original size) of resources included in a container. It may be even an approximate value. Byte unit.
av:totalDuration	duration	no	Total time of resources included in a container. It may be even an approximate value.
av:recordQualityLevel	integer	no	Quality level of content. {1,2,3,4,5,6,7} In the case of video, 3: 2 Mbps; 4: 4 Mbps; 5: 8 Mbps for standard. The values are not strictly set. When quality levels of plural res's differ, the highest level is set. (For each res, res@av:recordQualityLevel is set)
index-start-position information av:indexStartPosition	duration	no	Positional information of partial data (impressive portion). (temporal position or data position from content-start position)
index-region information av:indexDuration	duration	no	Region information of partial data (impressive portion). (temporal or data-region information from index-start position)

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FIG. 10



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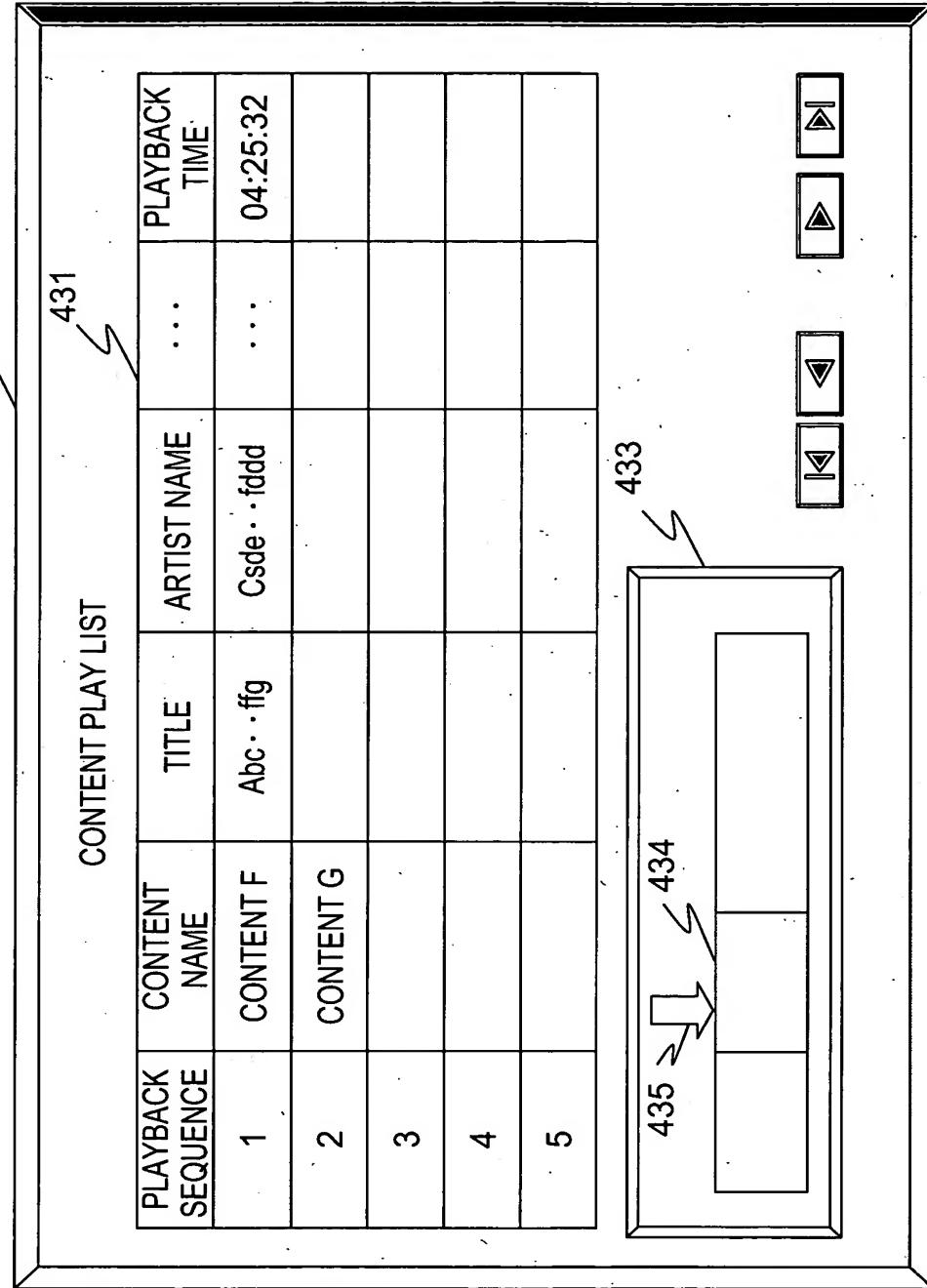


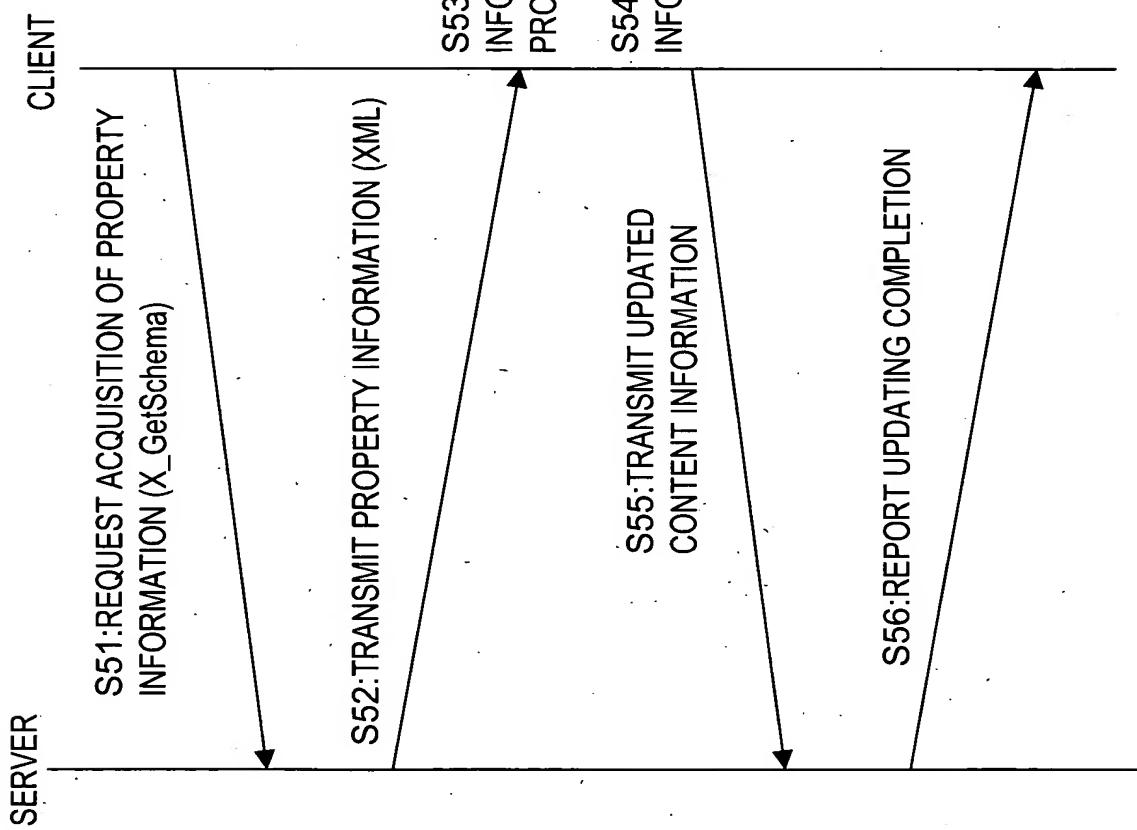
FIG. 11

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FIF. 12



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<?xml version="1.0">
<av:PropertiesInfo xmlns:av = "urn:schemas-sony-com:av">
  <av:PropertyInfo>
    <av:PropertyName>dc:title</av:PropertyName>
    <av:MinOccurred>1</av:MinOccurred>
    <av:MaxOccurred>1</av:MaxOccurred>
    <av:OperationCode>rcw</av:OperationCode>
  </av:PropertyInfo>
  ...
  <av:PropertyInfo>
    <av:PropertyName>upnp:artist</av:PropertyName>
    <av:MinOccurred>0</av:MinOccurred>
    <av:MaxOccurred>1</av:MaxOccurred>
    <av:OperationCode>rcwad</av:OperationCode>
  </av:PropertyInfo>
  ...
  <av:PropertyInfo>
    <av:PropertyName>av:recordQualityLevel</av:PropertyName>
    <av:MinOccurred>1</av:MinOccurred>
    <av:MaxOccurred>1</av:MaxOccurred>
    <av:OperationCode>rcw</av:OperationCode>
    <av:AllowedValueRange>
      <av:Minimum>3</av:Minimum>
      <av:Maximum>5</av:Maximum>
      <av:Step>1</av:Step>
    </av:AllowedValueRange>
  </av:PropertyInfo>
  ...
  <av:PropertyInfo>
    <av:PropertyName>av:recordStatus</av:PropertyName>
    <av:MinOccurred>1</av:MinOccurred>
    <av:MaxOccurred>1</av:MaxOccurred>
    <av:OperationCode>r</av:OperationCode>
    <av:AllowedValueList>
      <av:AllowedValue>NotYet</av:AllowedValue>
      <av:AllowedValue>Timed</av:AllowedValue>
      <av:AllowedValue>Recording</av:AllowedValue>
      <av:AllowedValue>Recorded</av:AllowedValue>
    </av:AllowedValueList>
  </av:PropertyInfo>
  ...
</av:PropertiesInfo >

```

FIG. 13

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<u>av:PropertyName</u>	string	dc:title	Property name (write for each namespace, such as SortCriteria)
<u>av:MinOccurred</u>	unsigned integer	1	In the server, regarding one object in the specified class, the minimum number of properties that must exist.
<u>av:MaxOccurred</u>	unsigned integer	1	In the server, regarding one object in the specified class, the maximum number of properties that can exist. No limit causes no tag.
<u>av:OperationCode</u>	formatted string	rwc	Among the following characters, corresponding characters are arranged: c: Specifiable in CreateObject mode w: Rewritable with UpdateObject a: Increasable with UpdateObject d: Erasable with UpdateObject s: Includable in SortCriteria with Browse/Search
<u>av:AllowedValueList</u>	-	-	Specified when a list of possible values of the property. No limit in possible values both in AllowedValueRange and this property. When the type of property is CSV, patterns are listed one by one, and all the patterns do not need to be listed. The values are listed as values of AllowedValue.
<u>av:AllowedValue</u>	depends on property	PLAY	Possible value
<u>av:AllowedValueRange</u>	-	-	Specified when some limitation lies in the range of possible value of the property. No limit in possible values both in AllowedValueList and this property. The range
<u>av:Minimum</u>	depends on property	1	The minimum value of the property. No minimum value needs no tag.
<u>av:Maximum</u>	depends on property	1	The maximum value of the property. No maximum value needs no tag.
<u>av:Step</u>	depends on property	1	If a possible value is determined at predetermined intervals, the interval is shown here. If not, no tag is used.

FIG. 14

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FIG. 15

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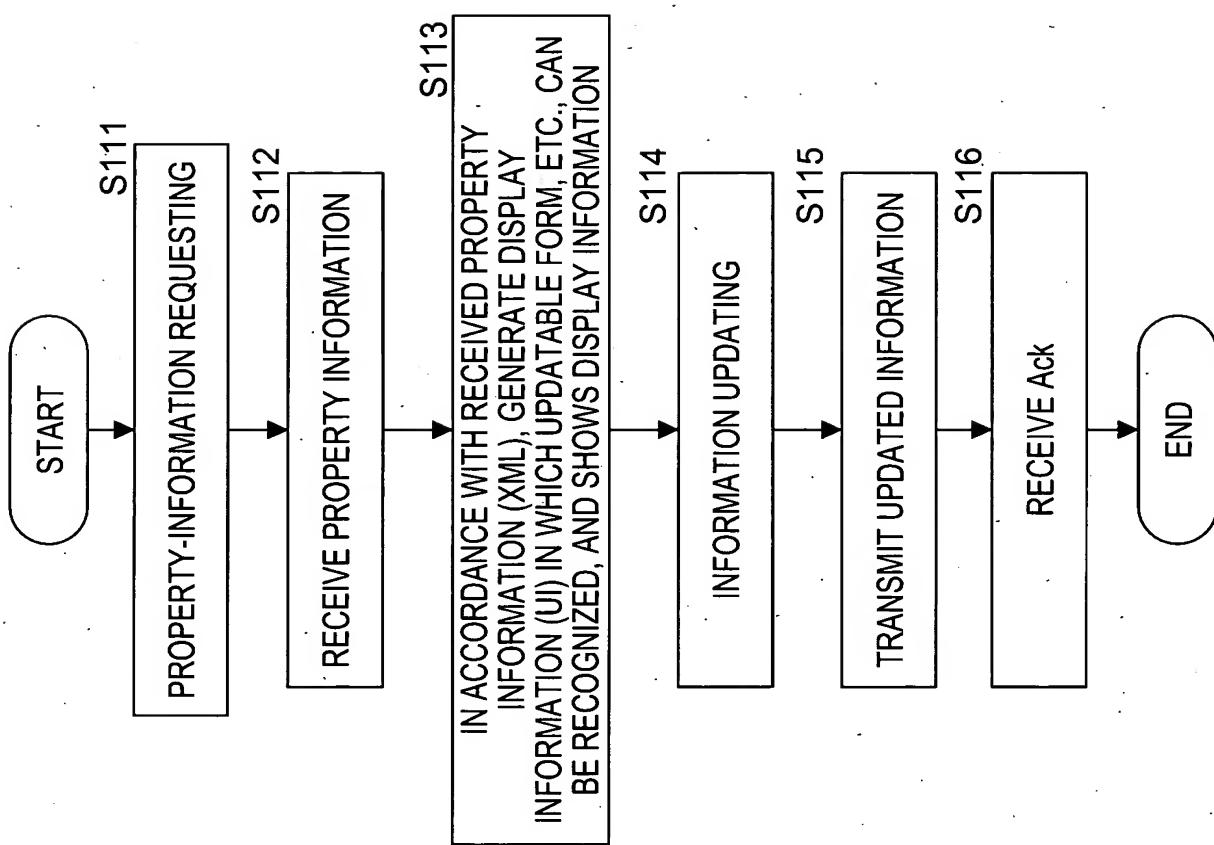


FIG. 16

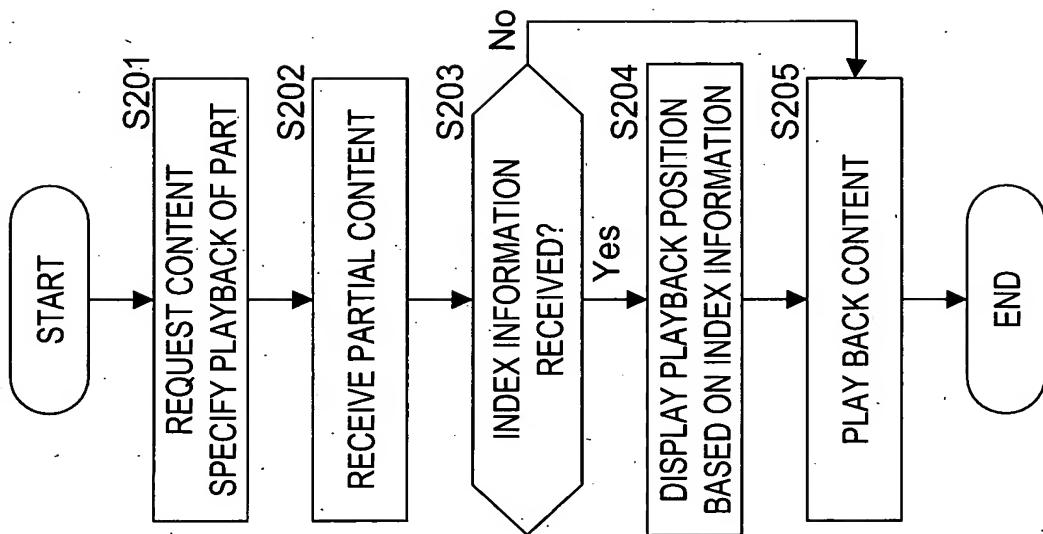


FIG. 17

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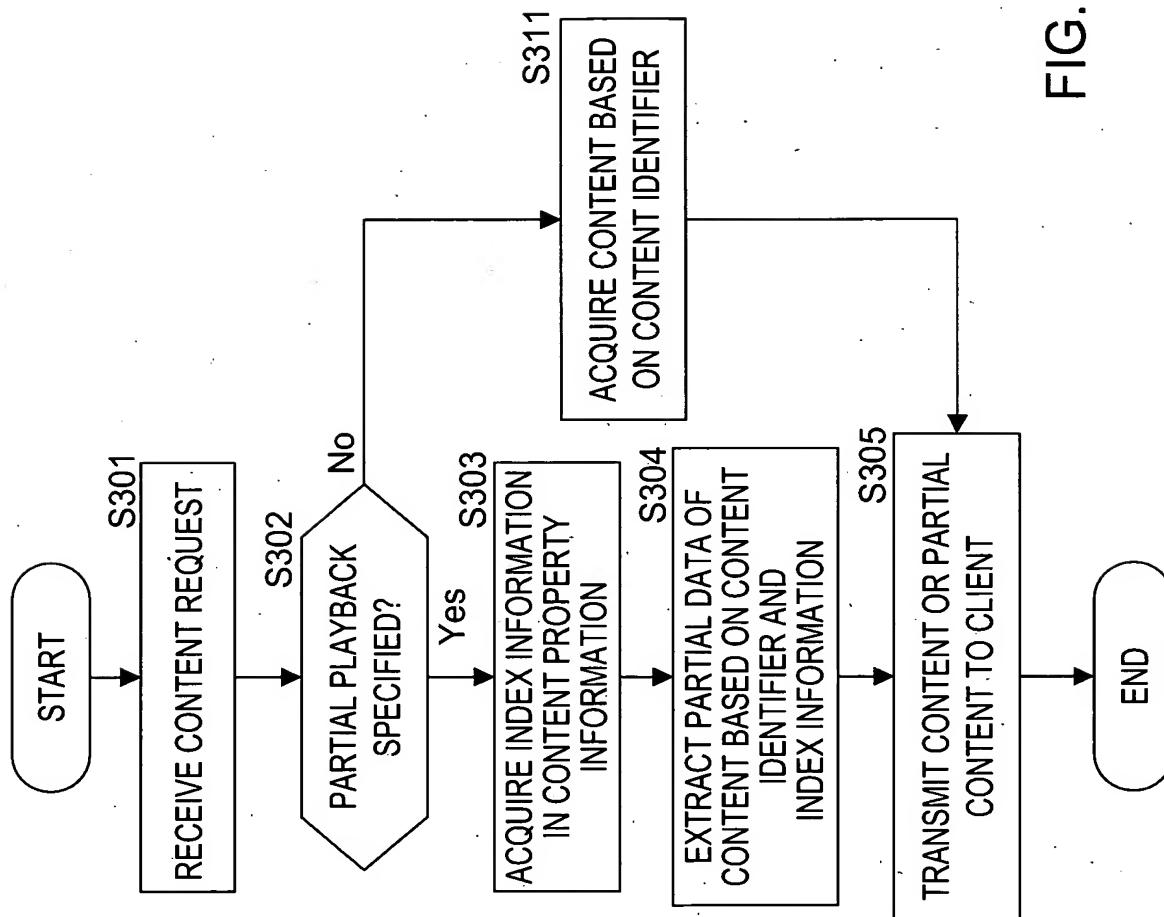


FIG. 18

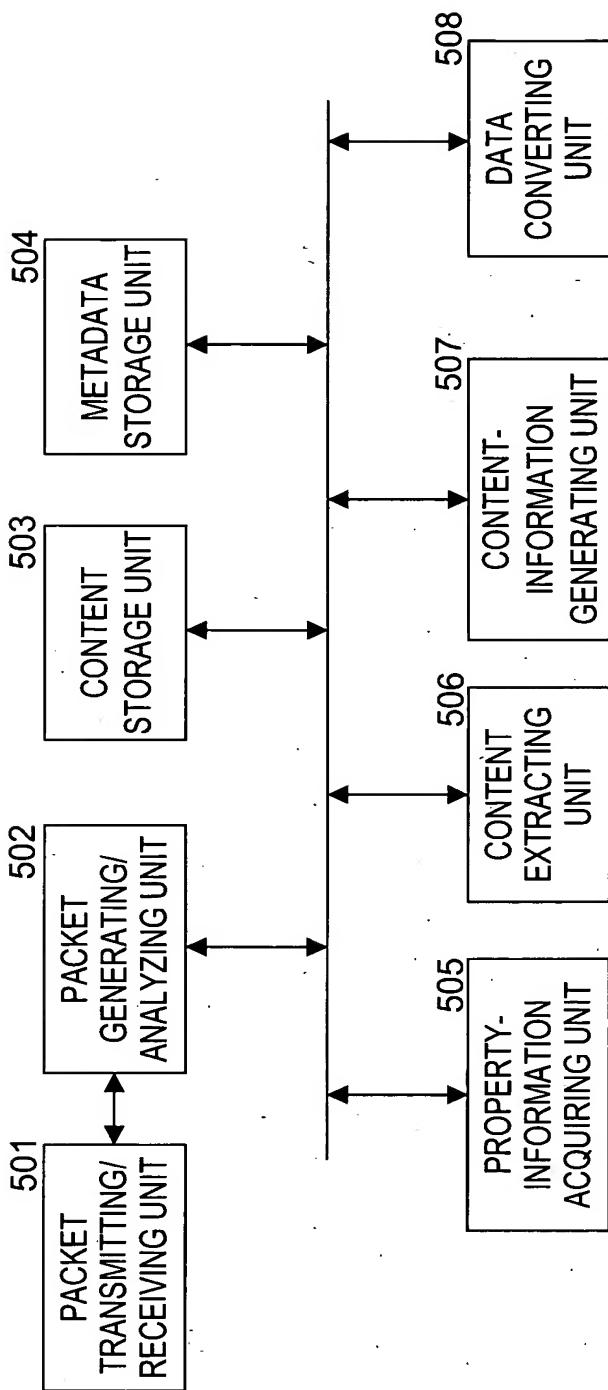


FIG. 19

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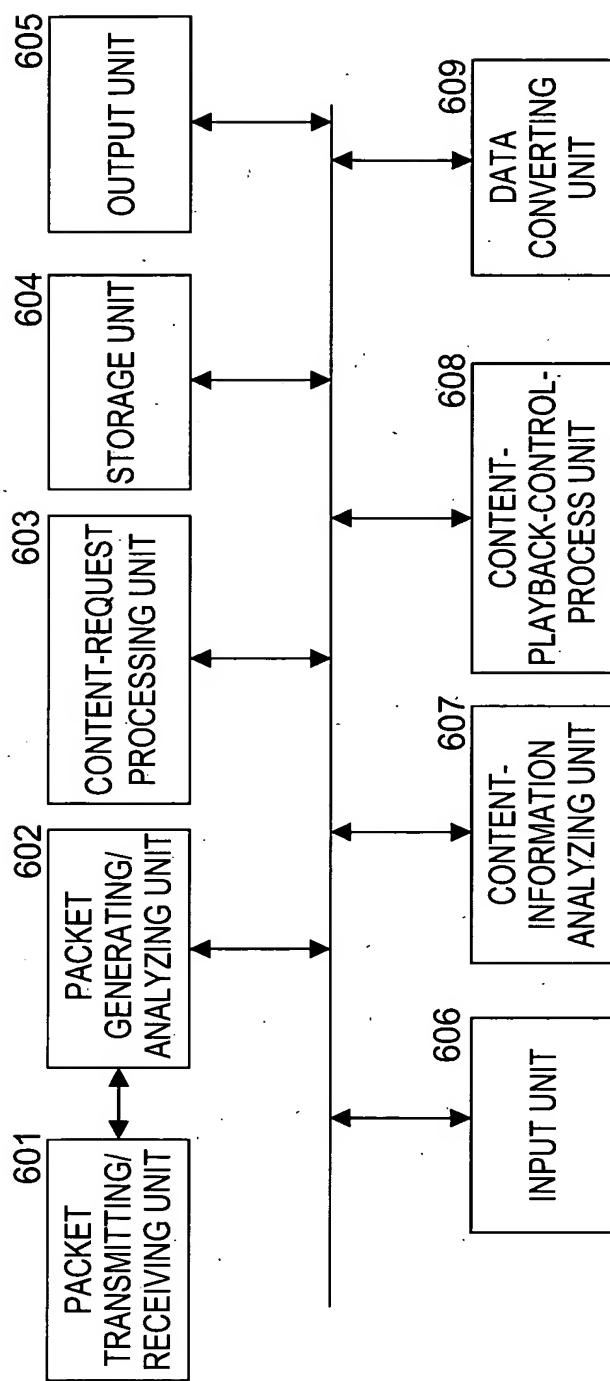


FIG. 20